



FAA-E-2338 & AMEND.-3
SPECIFICATION CHANGE-2
February 10, 1970
SUPERSEDING
SPEC. CH.-1, 7/23/69

DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION SPECIFICATION

AIRPORT SURVEILLANCE RADAR DISPLAY SYSTEM EQUIPMENT (SOLID STATE)

This specification change forms a part of FAA-E-2338 dated March 22, 1968, as modified by AMENDMENT-3 dated April 10, 1969.

Page 1, paragraph 1.1: In the fourth line, delete "60 mile radius" and substitute "60 mile radius normally, and within an area of 200 mile radius when used with auxiliary beacon equipment."

Page 2: Under paragraph 2.2.3, add the following new paragraph:

"2.3 Federal specification.- The following Federal Specification forms a part of this specification and is applicable to the extent specified herein:

TT-C-001558 Interim Federal Specification, Coating Compound,
Elastometric, Baked and Air Dried
(For Interior Use)"

Page 6, paragraph 3.4.1.3: Change second line to "thirty (30), forty (40), and two hundred (200) nautical miles shall be provided. In addition,"

Page 7, paragraph 3.4.1.3: Delete the sentence "Six (6), ten (10), variable." and substitute "Six (6), ten (10), twenty (20), thirty (30), forty (40), variable, two hundred (200)."

Page 7, paragraph 3.4.1.3: Delete last two sentences (AMEND.-3) and substitute:

"The range selector switch shall provide for switching of a common input point to seven different outputs corresponding to the seven ranges. The eight points (one input, seven outputs) shall be terminated in a female jack on the panel provided for external connections (3.7.3)."

Page 7, paragraph 3.4.1.4: Add the following after the second sentence:

"25 mile range marks shall be provided on the 200 nautical mile range with every other range mark intensified, i.e., 50, 100, 150, 200."

Page 7, paragraph 3.4.1.4: Add the following between "range mark" and "shall" in the seventh line: "(with the exception of the 25 mile interval)".

Page 7, paragraph 3.4.1.5: After "60 nautical miles" in the tenth line, add "(200 nautical miles on 200 nautical mile range)."

Page 7, paragraph 3.4.1.5: After "and variable ranges" in the fourteenth line, add "and 200 miles on the 200 nautical mile range."

Page 8, paragraph 3.4.1.6: Add to the end of the paragraph:

"The video mixing circuitry shall include a beacon blanking circuit which shall gate MTI/normal and beacon video."

Page 9: After paragraph 3.4.1.6.2 add the following new paragraph:

"3.4.1.6.3 Gating circuit.- Gating circuitry shall be provided so that: MTI/normal video shall be available for display only between 0 and 60 miles when 200 mile range operation is selected; and beacon video signals originating beyond 60 miles shall not be displayed between 0 and 60 miles when 60 mile, or less, range operation is selected."

Page 9, paragraph 3.4.1.7: After "with ASR" in the fourteenth line, add "or Beacon".

Page 10, paragraph 3.4.1.7: Delete the last sentence and substitute the following:

"Each of the range scales shall be maintenance adjustable so that all ranges between adjacent range scales can be covered and the 6 mile range scale can be reduced to 4.8 miles while maintaining full coverage of the CRT. The maximum range of 60 miles need not be exceeded. The 200 mile range shall be maintenance adjustable by $\pm 20\%$."

Page 11, paragraph 3.4.1.11: In the seventeenth line, add "or Beacon zero range" after "with ASR zero range".

Page 12, paragraph 3.4.1.11(AMEND.-3): Delete "Range mark duration shall be 0.1 ± 0.05 microsecond" and substitute "Range mark duration shall be 0.2 ± 0.1 microsecond."

Page 14, paragraph 3.4.2: In line three, after "radar pre-trigger," add "Beacon trigger,".

Page 32, paragraph 3.9.7: Delete text in its entirety and substitute the following:

"With the exception of the PPI display console front panel, finish of the front faces and edges of exterior front panels and panel doors, the exterior surfaces of equipment cabinets, and all other final metallic enclosures shall be in accordance with Federal Specification TT-C-001558, Class A, color matched to No. 30372 of Federal Standard 595. A primer and the final finish shall be applied in accordance with the manufacturer's instructions. This requirement is in lieu of 1-3.8.2, FAA-G-2100/1. The PPI display console front panel, the back surfaces of exterior front panels and panel doors, other interior surfaces and hardware shall be finished in accordance with 1-3.8 and subparagraphs, FAA-G-2100/1, except that interior aluminum surfaces may be finished with either Class 2 or Class 3 chemical film treatment specified in MIL-C-5541."

* * * * *

